

ABSTRACT

Wideband telephones, gateways, adapters, software, and methods are provided
5 for implementing wideband telephony over a network. A WB IP telephone has a WB
telephone, a codec for encoding voice into voice data bits, and a packetizer for
encoding groups of the voice data bits in intermediate packets. An adapter for an
analog WB telephone has a digital to analog converter, a codec and a packetizer. The
intermediate packets are generally not in form that would be ready for network
10 transmission. The WB IP telephone also includes a modem for connecting to the
network over a telephone line. A voice gateway receives the encoded voice, and adds
packet headers to it, to make it suitable for transmission through the network to a
cooperating gateway. The cooperating gateway in turn strips the headers for the
receiving WB IP telephone. The WB IP telephones can thus be connected to the
15 network using only PSTN lines.